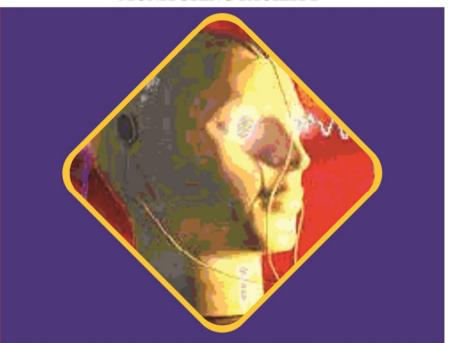
## **NIYIQURE**

### NIVIQURE ECT SYSTEM WITH POST-ECT EEG MONITORING FACILITY

Niviqure monitored ECT system designed for minimal memory impairment, post-ECT confusion, etc. ....

## Unique Features :

- \* Dual mode operation of ECT Machine:
  - \* Simplicity in standalone mode
  - \* Customisation and finer settings in computerised mode
- \* Compactness of post-ECT EEG module:
  - \* 5.8" TFT display
  - \* Micro-SD card memory
  - \* Nivigure software for analysis using computer



Integrated ECT and 4-channel EEG/ECG system (Model: Niviqure - INT 5)

In view of continuous upgrades and design development the actual model may vary from the pictures and specifications shown in this brochure.

#### **NIYIQURE**

An ISO 13485:2003 & ISO 9001: 2008 certified company Web site: http://www.niviqure.com Email: info@niviqure.com

Authorized agent:

Designed, developed and manufactured in India.



## **NIYIOURE**

#### NIVIOURE ECT system

#### Model: NIVIQURE - INT-5

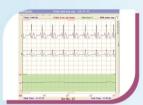
NIVIQURE ECT system produces pulsed, constant current, bidirectional, electronically controlled electrical charge (milli-coulombs) for BEST THERAPEUTIC EFFECT. This ensures JUST ADEQUATE ELECTRICAL DOSAGE required for least side effects like memory impairment, post-ECT confusion, etc. SAFETY of medical attendants and other Electro-medical / electronics apparatus in contact with the patient at the time of ECT administration are ensured by thorough isolation.



- ✓ AUTO set electrical dosage.
- Auto increment feature in case of sub-shocks.
- ✓ With computer hook-on:
- o Off-line or On-line data recording and retrieval.
- Automatic dosage setting based on Sex, Age and Inion-Nasion distance.
- Auto increment feature in case of sub-shocks.
- o Post-ECT EEG monitoring and display.
- o Record storage and retrieval facility.
- o Printer output for record purposes.
- Time domain and Frequency domain (Spectral power) analysis / reportage



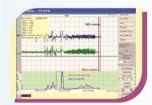
4-Ch Online ECG/ EEG



Representative ECG waveform (demonstrating waveform quality)



Compressed EEG Waveform - Post ECT



Compressed EEG waveform (as seen on computer with Nivigure software)



# Post-ECT EEG monitoring MODEL:NIVIOURE-I INT-5

INT-5 Model: Has a 5.8" color graphic TFT display, SD card memory, and Printer interface.

# Representative 1-channel ECQ and 2-channel EEQ waveform during ECT procedure Compressed screen format showing one complete ECT procedure (consisting of one sub-shock)

#### Features:

- ✓ Withstands high voltages, surges during ECT procedure.
- ✓ Number of channels selectable: 2 or 4 channels. & 8 with PC
- ✓ Optimal X and Y-axis scale, signal cleaning digital filters provided for post-ECT EEG/ECG monitoring signal levels.
- ✓ Sampling rate set to 1000 samples per second per channel.
- ✓ Data saving / retrieval is possible:
- The data is directly collected into the SD card. Offline data downloading and saving into computer.
- ✓ Data translation into BIN, ASCII formats possible. This permits easy / quick data transfer into other standard software
- Niviqure software for analysis and report generation in computer.

Specification

	Parameters	Auto Mode	Manual / PC Mode
Output	Constant current Pulse amplitude	800 mA	200 to 1000 mA
	Pulse width	1.5 ms	0.3 to 2 ms
	Frequency	125 PPS	50 to 200 PPS
	Duration	0.4 to 3.6 Sec	0.1 to 20 Sec
	Charge	60 to 540 mC (9 Steps)	Variable
	Pulse waveform	Bidirectional	
	Interface to the computer	Not applicable	RS 232 Port
Input	AC	230V, + / - 10%, 50 Hz	
	Trigger	Remote on hand - held electrode	
Built-in Safety	Timer Control	Electronic	Electronic & Computer
	Opto-Isolation from computer	Not applicable	Available
	Transformer Isolation	Yes	Yes
	Relay Isolation	Yes	Yes
	Audio and visual indication	Yes	Yes
Mechanical	Dimensions , Weight	320x300x150mm , 8Kg (Apprx.)	
EEG Module	Amplifier Gain	1000	
	Frequency Band	0.5 to 100 Hz	
	Sampling rate	1000 samples per second per channel	

Model NIVIQURE- INT-5 machine (Can be used with or without a computer)